

Author Index

- Allende, O., see Rangel-Aldao, R., 39
 Andrade, E.A., see Zolg, J.W., 145
 Arasu, P., see Vaidya, A.B., 249
 Arauzo, S.S., see Montamat, E.E., 185
 Aronow, B., Kaur, K., McCartan, K. and Ullman, B.
 Two high affinity nucleoside transporters in *Leishmania donovani*, 29
- Betschart, B. and Jenkins, J.M.
 Distribution of iodinated proteins in *Dipetalonema viteae* after surface labelling, 1
 Blanco, A., see Montamat, E.E., 185
 Branford White, C.J., see Hipkins, J.B., 55
 Buranakitjaroen, P. and Newbold, C.I.
 Antigenic cross reactivity between p195 and a distinct protein of 100 kDa in *Plasmodium falciparum*, 65
- Cardoso de Almeida, M.L., see Ross, C.A., 153
 Chaudri, M., see Simpson, A.J.G., 169
 Clarke, L.E., Messer, L.I., Greenwood, N.M. and Wisher, M.H.
 Isolation of lamp3 genomic recombinants coding for antigens of *Eimeria tenella*, 79
 Cordingley, J.S., see Johnson, K.S., 89
- Donelson, J.E., see Engman, D.M., 115
- Egwan, T.G. and Kazura, J.W.
 Immunochemical characterization and biosynthesis of major antigens of Iodo-bead surface-labeled *Brugia malayi* microfilariae, 159
 Engman, D.M., Reddy, L.V., Donelson, J.E. and Kirchhoff, L.V.
Trypanosoma cruzi exhibits inter- and intra-strain heterogeneity in molecular karyotype and chromosomal gene location, 115
- Feagin, J.E., see Jasmer, D.P., 259
 Foley, M., see Kennedy, M.W., 233
 Fry, M., see Paget, T.A., 125
- Garland, P.B., see Kennedy, M.W., 233
 Gill, A., Timms, P. and Kemp, D.J.
 cDNA clone encoding a high molecular weight antigen of *Babesia bovis*, 195
 Goodsaid, F., see Larralde, C., 203
 Gottlieb, M., see Lovelace, J.K., 19
 Greenwood, N.M., see Clarke, L.E., 79
 Guevara, P., see Ramírez, J.L., 177
- Henríquez, D., see Piras, M.M., 135
 Henríquez, D., see Rangel-Aldao, R., 39
 Hipkins, J.B., Branford White, C.J. and Peters, T.J.
 Effect of phenothiazines on *Hymenolepis diminuta* with special reference to the brush border Ca²⁺-dependent ATPase, 55
- Jasmer, D.P., Feagin, J.E., Payne, M. and Stuart, K.
 Variation of G-rich mitochondrial transcripts among stocks of African trypanosomes, 259
 Jenkins, J.M., see Betschart, B., 1
 Johnson, K.S., Taylor, D.W. and Cordingley, J.S.
 Possible eggshell protein gene from *Schistosoma mansoni*, 89
- Kaur, K., see Aronow, B., 29
 Kazura, J.W., see Egwan, T.G., 159
 Kelly, C., see Simpson, A.J.G., 169
 Kemp, D.J., see Gill, A., 195
 Kennedy, M.W., Foley, M., Kuo, Y.-M., Kusel, J.R. and Garland, P.B.
 Biophysical properties of the surface lipid of parasitic nematodes, 233
 Kierszenbaum, F., see Villalta, F., 109
 Kirchhoff, L.V., see Engman, D.M., 115
 Knight, M., see Simpson, A.J.G., 169
 Koloczek, H., see Larralde, C., 203
 Komuniecki, P.R. and Vanover, L.
 Biochemical changes during the aerobic-anaerobic transition in *Ascaris suum* larvae, 241
 Kuo, Y.-M., see Kennedy, M.W., 233
 Kusel, J.R., see Kennedy, M.W., 233
- Laclette, J.P., see Larralde, C., 203
 Langsley, G., see Shippen-Lentz, D., 223
 Larralde, C., Sassa, S., Vanderkooi, J.M., Koloczek, H., Laclette, J.P., Goodsaid, F., Sciutto, E. and Owen, C.S.
 Analysis of porphyrins and enzymes in porphyrin synthesis in *Taenia solium* cysticercus from man and pig, 203
 Lee, R.W.K., see Thompson, S.N., 45
 Lloyd, D., see Paget, T.A., 125
 Lockyer, M.J. and Schwarz, R.T.
 Strain variation in the circumsporozoite protein gene of *Plasmodium falciparum*, 101
 Lovelace, J.K. and Gottlieb, M.
 Effect of tunicamycin on the extracellular acid phosphatase of *Leishmania donovani* promastigotes, 19
- Martin, S., see Simpson, A.J.G., 169
 McCartan, K., see Aronow, B., 29
 McLaren, D.J., see Rogers, M.V., 273
 Messer, L.I., see Clarke, L.E., 79
 Montamat, E.E., Arauzo, S.S. and Blanco, A.
 Subcellular localization of leucine aminotransferase and α -hydroxyacid dehydrogenase in *Trypanosoma cruzi*, 185
- Newbold, C.I., see Buranakitjaroen, P., 65
 North, T.W. and Wyler, D.J.
 DNA synthesis in promastigotes of *Leishmania major* and *L. donovani*, 215
- Owen, C.S., see Larralde, C., 203

- Paget, T.A., Fry, M. and Lloyd, D.
Effects of inhibitors on the oxygen kinetics of *Nippostrongylus brasiliensis*, 125
- Payne, M., see Jasmer, D.P., 259
- Peters, T.J., see Hipkins, J.B., 55
- Phillips, M.A. and Wang, C.C.
A *Trypanosoma brucei* mutant resistant to α -difluoromethylornithine, 9
- Piras, M., see Rangel-Aldao, R., 39
- Piras, M.M., Henríquez, D. and Piras, R.
The effect of fetuin and other sialoglycoproteins on the in vitro penetration of *Trypanosoma cruzi* trypomastigotes into fibroblastic cells, 135
- Piras, R., see Piras, M.M., 135
- Piras, R., see Rangel-Aldao, R., 39
- Platzer, E.G., see Thompson, S.N., 45
- Ramírez, J.L. and Guevara, P.
The ribosomal gene spacer as a tool for the taxonomy of *Leishmania*, 177
- Rangel-Aldao, R., Allende, O., Triana, F., Piras, R., Henríquez, D. and Piras, M.
Possible role of cAMP in the differentiation of *Trypanosoma cruzi*, 39
- Ray, R., see Shippen-Lentz, D., 223
- Reddy, L.V., see Engman, D.M., 115
- Rogers, M.V. and McLaren, D.J.
Analysis of total and surface membrane lipids of *Schistosoma mansoni*, 273
- Ross, C.A., Cardoso de Almeida, M.L. and Turner, M.J.
Variant surface glycoproteins of *Trypanosoma congolense* bloodstream and metacyclic forms are anchored by a glycolipid tail, 153
- Rumjanek, F., see Simpson, A.J.G., 169
- Sassa, S., see Larralde, C., 203
- Scaife, J.G., see Shippen-Lentz, D., 223
- Schwarz, R.T., see Lockyer, M.J., 101
- Sciutto, E., see Larralde, C., 203
- Scott, E.D., see Zolg, J.W., 145
- Shippen-Lentz, D., Ray, R., Scaife, J.G., Langsley, G. and Vezza, A.C.
Characterization and complete nucleotide sequence of a 5.8S ribosomal RNA gene from *Plasmodium falciparum*, 223
- Simpson, A.J.G., Chaudri, M., Knight, M., Kelly, C., Rumjanek, F., Martin, S. and Smithers, S.R.
Characterisation of the structure and expression of the gene encoding a major female specific polypeptide of *Schistosoma mansoni*, 169
- Smithers, S.R., see Simpson, A.J.G., 169
- Stuart, K., see Jasmer, D.P., 259
- Taylor, D.W., see Johnson, K.S., 89
- Thompson, S.N., Platzer, E.G. and Lee, R.W.K.
In vivo ^{31}P NMR spectrum of *Hymenolepis diminuta* and its change on short-term exposure to mebendazole, 45
- Timms, P., see Gill, A., 195
- Triana, F., see Rangel-Aldao, R., 39
- Turner, M.J., see Ross, C.A., 153
- Ullman, B., see Aronow, B., 29
- Vaidya, A.B. and Arasu, P.
Tandemly arranged gene clusters of malarial parasites that are highly conserved and transcribed, 249
- Vanderkooi, J.M., see Larralde, C., 203
- Vanover, L., see Komuniecki, P.R., 241
- Vezza, A.C., see Shippen-Lentz, D., 223
- Villalta, F. and Kierszenbaum, F.
Role of membrane N-linked oligosaccharides in host cell interaction with invasive forms of *Trypanosoma cruzi*, 109
- Wang, C.C., see Phillips, M.A., 9
- Wisher, M.H., see Clarke, L.E., 79
- Wyler, D.J., see North, T.W., 215
- Zolg, J.W., Andrade, E.A. and Scott, E.D.
Detection of *Plasmodium falciparum* DNA using repetitive DNA clones as species specific probes, 145

Subject Index

- Alternative respiration, 125
 δ -Aminolevulinic acid dehydratase, 203
 cAMP, 39
 cAMP-binding proteins, 39
 λ Amp3, 79
 Anaerobic metabolism, 241
 Antigen, 79
 Antigenic cross reactivity, 65
 Aphidicolin, 215
Ascaris suum, 241
 ATP, 45

Babesia bovis, 195
 Benzimidazole, 45
Brugia malayi, 159

 Ca^{2+} -ATPase, 55
 Calmodulin, 55
 Cell differentiation, 39
 Chorion gene, 89
 Chromosome, 115
 Circumsporozoite protein gene, 101
 Coccidiosis, 79
 5' Coding region, 101
 Cross-reacting determinant, 153
 Cuticle isolation, 1
 Cytochrome c oxidase, 125

 Deglycosylation, 109
 Diagnosis, 145
 cDNA, 169, 195
 DNA probes, 145
 DNA replication, 215
 DNA sequence, 89, 223
 Drug resistance, 9
 Drug uptake, 9

 Eggshell, 89
Eimeria tenella, 79
 Electron transport, 125
 Epicuticle, 233
 Epimastigote, 39
 Evolution, 249
 Expression library, 79, 195
 Extracellular acid phosphatase, 19

 Female specific polypeptide, 169
 Fetuin, 135
 Filariae, 1
 Fluorescence quenching, 233
 Fluorescence Recovery After Photobleaching, 233
 Fluorescent lipid analogue, 233
 Fused polypeptide, 195
 Fusion protein, 79

 Gene expression, 169, 249
 Gene organization, 249
 Glycoprotein, 19
 Guinea pig, 273

 H_2O_2 production, 125
 Host cell infection, 109
 Host-parasite, 135
 α -Hydroxyacid dehydrogenase, 185
 Hydroxyurea, 215
Hymenolepis diminuta, 45, 55

 In vivo NMR, 45
 Infection, 135
 Invasion, 135
 Iodination, 1

 Karyotype, 115

 Larvae, 241
Leishmania, 177, 215
Leishmania donovani, 19, 29
 Leucine aminotransferase, 185
 Lipid profile, 273
 Lipid, 233

 Malaria, 249
 Mebendazole, 45
 Microfilariae, 159
 Mitochondria, 125
 Mitochondrial transcript, 259
 Monoclonal antibody, 65
 Myristic acid, 153

 N-linked oligosaccharide, 109
 Nematode, 1, 233
 Neuraminidase, 135
Nippostrongylus brasiliensis, 125
 ^{31}P NMR, 45
 Nucleoside transport, 29

 Ornithine, 9
 Oxygen toxicity, 125

 p195, 65
 Penetration, 135
 Phenol oxidase, 89
 Phosphatidylinositol phospholipase C, 153
 Phosphorylation, 45
Plasmodium, 249
Plasmodium falciparum, 65, 101, 145, 223
 Porphobilinogen deaminase, 203
 Porphyria, 203
 Pulsed field gradient gel electrophoresis, 115
 Putrescine, 9

Receptors, 39
Repeat region, 101
Repetitive DNA, 145, 249
Ribosomal gene, 177
mRNA, 195
5.8S rRNA, 223

Schistosoma mansoni, 89, 273
Schistosome, 169, 233
Sialic acid, 135
Sialoglycoprotein, 135
Spacer, 177
Strain specificity, 65
Subcellular localization of enzyme, 185
Substrate specificity, 29
Surface antigen, 159
Surface labelling, 1

Taenia solium cysticercus, 203
Tapeworm, 45

Taxonomy, 177
Tegumental membrane, 273
Toxocara canis, 233
Trans-sialylation, 135
Trichinella spiralis, 233
Trypanosoma brucei, 9, 153, 259
Trypanosoma congolense, 153
Trypanosoma cruzi, 39, 109, 115, 135, 185
Trypomastigote, 39
Tunicamycin, 19

Uroporphyrinogen decarboxylase, 203

Vitellogenesis, 89
Volatile fatty acid, 241

Whole worm homogenate, 273

Zn-coproporphyrin, 203

